UNITED STATES PATENT AND TRADEMARK OFFICE

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10/667,306	09/23/2003	Tatsuya Imai	243085US2	9272

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EXAMINER
CHAI, LONGBIT

ART UNIT	PAPER NUMBER
2131	

NOTIFICATION DATE	DELIVERY MODE
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)
Office Action Summary	10/667,306	IMAI, TATSUYA
	Examiner	Art Unit	
	Longbit Chai	2131	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>18 October 2007</u>.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-9,11-20,23 and 24</u> is/are pending in the application.

  4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1-9,11-20,23 and 24</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on <u>23 September 2003</u> is/are: a)☒ accepted or b)☐ objected to by the Examiner.

  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

  a)☐ All b)☐ Some * c)☐ None of:

   1.☐ Certified copies of the priority documents have been received.

   2.☐ Certified copies of the priority documents have been received in Application No. _____.

   3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

  * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____.

DETAILED ACTION

1.   Currently pending claims are 1 – 9, 11 – 20, 23 and 24.

Response to Arguments

2.   As per claim 1, Applicant asserts that (i) "If Maniwa was combined with the teachings in Gecht, that would at most result in an internal digital copier system including devices such as the scanner/printer controller 107, interface B, and copier controller 112 in Maniwa, and even with such a modification to Gecht no management system device outside of a fire wall would generate a command resulting in sending a test signal to a hardware resource of an image forming apparatus (Remarks: Page 17 / 4th Para) and (ii) in the present specification, the management system 70 that generates the command is outside of a fire wall 120 relative to an image processing apparatus 131. That is a contrary structure to the cited disclosure in Maniwa (Remarks: Page 18 / 3rd Para). Examiner respectfully disagrees because (a) Gecht teaches a spoofing server 50 located outside of the firewall 70 associated with the printer polling device / interface / printer 100/120 (i.e. an image processing / forming apparatus) (Gecht: Column 8 Line 16 – 17 and Figure 1 / Element 50 / 70 / 100/ 120) (b) a printer /scanner controller is considered as an image forming apparatus and a printer /scanner device is considered as a hardware resource (c) Maniwa teaches a command / response interface (i.e. Interface B) between the printer /scanner controller and the printer / scanner device (Maniwa: Column 6 Line 45 – 48 and Figure 1 / Interface B) (d) the command / response includes instructing an operation of the printer /scanner and checking the state thereof such as completion or suspension of the printer job (Maniwa: Column 6 Line 45 – 48 and Column 3 Line 18 – 20) (e) Examiner

notes the command is interpreted as the "test signal" and the status of completion or

suspension of the printer job as presented by the printer /scanner device is interpreted as

the "usage state including information in response to the test signal" to meet the claim

language – This is also <u>consistent with the disclosure of the instant specification</u> that

indicates (f) the processing unit sends a "command" as a "test signal" and this test signal

(i.e. command) is input to the hardware resource (i.e. printer / scanner) (SPEC: Page 48 /

Line 2 – 4: the processing unit 102 sends this command as a test signal to the engine

interface 103 and this test signal is input to the hardware resource 163) (g) the response of

the test signal (i.e. the response of the command) can include, for example, a status of the

processed command (normally processed or abnormally processed) (SPEC: Page 48 /

Line 16 – 21: Examiner notes a <u>completion</u> of the printer job, as taught by Maniwa (see

above), can be considered as a status of "normally processed" while a <u>suspension</u> of the

printer job can be considered as a status of "abnormally processed"). Therefore, Maniwa

does teach ""sending a test signal to a hardware resource of an image forming apparatus"

and in response providing "data indicating a usage state including information in response

to the test signal from the hardware resource" and as such Applicant's arguments are

respectfully traversed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

A person shall be entitled to a patent unless —

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1.   Claims 1, 4, 8, 11 –12, 15, 19 and 23 – 24 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Gecht et al. (U.S. Patent 6,859,832), in view of Maniwa et al. (U.S. Patent

5,768,483).

As per claim 1, 11 –12 and 23 – 24, Gecht teaches a management mediating device:

comprising:

a management system communication unit making a connection to a management

system outside a fire wall from inside the fire wall (Gecht : Abstract / Line 10 –15 and

Column 8 Line 12 –18), and receiving a command from the management system (Gecht :

Figure 1 & 8, Column 10 Line 23 – 45 and Column 8 Line 16 – 17: Gecht teaches a spoofing

server 50 located outside of the firewall 70 associated with the printer polling device / interface

/ printer 100/120 (i.e. an image processing / forming apparatus));

a processing for performing a process in accordance with the received command

(Gecht : Column 10 Line 23 – 45 and Column 5 Line 18 – 25), the process including to

send a test signal to a hardware resource of an image forming apparatus to obtain data

indicating a usage state of the image forming apparatus in a local area, the data indicating

the usage state including information in response to the test signal from the hardware

resource (as taught by Maniwa – see below);

a management object system communication unit for transferring the command to

a management object system (Gecht : Column 10 Line 38 – 45);

a storage unit for storing a connection schedule of the management system

communication means (Gecht : Column 5 Line 22 – 25, Column 5 Line 58 – 60 and

Column 12 Line 56 – 59: requested print job can include a schedule); and

an instructing unit for in accordance with the connection schedule, instructing the

management system communication means to make a connection to the management system

(Gecht : Column 3 Line 30 – 32 and Column 5 Line 18 – 21: the polling device may

periodically poll the spooling server is considered as periodically start the connection

to the management device at the polling / connection start interval).

However, Gecht does not teach the process including to send a test signal to a

hardware resource of an image forming apparatus to obtain data indicating a usage state of

the image forming apparatus in a local area, the data indicating the usage state including

information in response to the test signal from the hardware resource.

Maniwa teaches the process including to send a test signal to a hardware resource of an

image forming apparatus to obtain data indicating a usage state of the image forming

apparatus in a local area, the data indicating the usage state including information in response

to the test signal from the hardware resource (Maniwa : Figure 9 and Column 3 Line 17 – 27,

Column 6 Line 45 – 48 & Figure 1 / Interface B, Column 6 Line 45 – 48 and Column 3 Line 18 –

20: Examiner notes each image-forming device (e.g. printer controller) is configured with NIC

(Network Interface Card) for communication purpose which is interpreted as the "image-

forming-device communication unit" – i.e. the image-forming-device communication unit is

configured to interface with the network in the following manners: (1) transmits a device

message to the corresponding image-forming device upon receiving the device

message from the network (i.e. the management system), and (2) receives the device-

state information from the corresponding image-forming device and forwards to the network

(i.e. the management system). Besides, Examiner further notes (a) a printer /scanner

controller is considered an image forming apparatus and a printer /scanner device is

considered as a hardware resource (b) Maniwa teaches a command / response interface (i.e.

Interface B) between the printer /scanner controller and the printer / scanner device (Maniwa:

Column 6 Line 45 – 48 and Figure 1 / Interface B) (c) the command / response includes

instructing an operation of the printer /scanner and checking the state thereof such as

completion or suspension of the printer job (Maniwa: Column 6 Line 45 – 48 and Column 3 Line

18 – 20) (d) Examiner notes the command is interpreted as the "test signal" and the status of

completion or suspension of the printer job as presented by the printer /scanner device is

interpreted as the "usage state including information in response to the test signal" to meet the

claim language – This is also consistent with the disclosure of the instant specification that

indicates (e) the processing unit sends a "command" as a "test signal" and this test signal (i.e.

command) is input to the hardware resource (i.e. printer / scanner) (SPEC: Page 48 / Line 2 –

4: the processing unit 102 sends this command as a test signal to the engine interface 103 and

this test signal is input to the hardware resource 163) (f) the response of the test signal (i.e. the

response of the command) can include, for example, a status of the processed command

(normally processed or abnormally processed) (SPEC: Page 48 / Line 16 – 21: Examiner notes

a completion of the printer job, as taught by Maniwa (see above), can be considered as a

status of "normally processed" while a suspension of the printer job can be considered as a

status of "abnormally processed")).

It would have been obvious to a person of ordinary skill in the art at the time the invention

was made to combine the teaching of Maniwa within the system of Gecht because (a) Gecht

teaches providing printing services over a communication network using device management

between the spooling server and the polling device (Gecht : Column 1 Line 8 – 10 and Figure 1)

and (b) Maniwa teaches providing improved printing functions in which the convenience of work

for receiving / responding print image data between the file server and printer controller over

a network (Maniwa : Column 4 Line 40 – 46: including wide area or local area networks).

As per claim 4 and 15, Gecht teaches the processing means has a schedule changing function of changing the connection schedule stored in the storing means in accordance with the command (Gecht : Column 12 Line 56 – 59).

As per claim 8 and 19, Gecht teaches when the command is a schedule requiring command, the processing means reads the connection schedule from the storing means, and causes the management system communication means to provide the connection schedule to the management system (Gecht : Column 5 Line 58 —60 and Figure 9: The print job may include the schedule and the requested print job is communicated between the management device and the polling device).

5.   Claims 2 – 3 and 13 – 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gecht et al. (U.S. Patent 6,859,832), in view of Maniwa et al. (U.S. Patent 5,768,483), in view of Takahashi et al. (U.S. Patent 6,424,429), and in view of Reichman et al. (U.S. Patent 6,535,716).

As per claim 2 and 13, Gecht as modified teaches making a connection to the management system at a specific time (Gecht : Column 5 Line 22 – 25). However, Gecht does not disclose expressly (1) making a connection to the management system at a specified date and time.

Takahashi teaches:

(1) an instruction of making a connection to the management system at .a specified date and time (Takahashi : Column 5 Line 40 – 46).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Takahashi within the system of Gecht as modified because (a) Gecht teaches providing printing services over a communication network using device management between the spooling server and the polling device (Gecht : Column 1 Line 8 —10 and Figure 1) and (b) Takahashi teaches providing a flexible scheduling mechanism to deliver the data resource from the internet based on the user desired schedules (Takahashi : Column 5 Line 40 – 46).

Gecht in view of Takahashi teaches:

(2) an instruction of making a connection to the management system at a specified time every day (Takahashi : Column 5 Line 40 – 46: the specific date / time is selected based on the user's desired schedules, which evidently covers any range of year, month and day as presented by a calendar and as such scheduling at a specific time everyday is thus feasible as taught by Takahashi);

(3) an instruction of making a connection to the management system at a specified date and time every month (Takahashi : Column 5 Line 40 – 46: See the same rationale as set forth in rejecting item-(2));

(4) an instruction of making a connection to the management system in a specified period at intervals of a specified value (Gecht : Column 12 Line 56 – 59: dynamically adjusted interval & Takahashi : Column 5 Line 40 – 46: the specific date / time, as taught by Takahashi, is selected based on the user's desired schedules; which evidently covers any range of a specific period (year/month/day) as presented by a calendar);

(5) an instruction of making a connection to the management system in a specified period at intervals of a specified value every day (Gecht : Column 12 Line 56 – 59: dynamically adjusted inhterval & Takahashi : Column 5 Line 40 – 46: See the same rationale as

set forth in rejecting item-(2)).

However, Gecht in view of Takahashi does not disclose expressly (6) an instruction of making a connection to the management system from a specified date and time at intervals of a specified value for an indefinite period.

Reichman teaches (6) an instruction of making a connection to the management system from a specified date and time at intervals of a specified value for an indefinite period (Reichman : Column 9 Line 19 – 21: preferred schedule contains start date/ time and end date / time and thereby, Examiner notes "an indefinite period" is interpreted as an unexpected long period of time – for example, when the end date / time (year/month/day) is configured as 2106 / month / day). •

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Reichman within the system of Gecht as. modified because (a) Gecht as modified teaches providing printing services over a communication network using device management between the spooling server and the polling device (Gecht : Column 1 Line 8 – 10 and Figure 1) and (b) Reichman teaches providing a flexible scheduling mechanism to deliver the data resource from the satellite network that can yield optional bandwidth on demand features to remote terminals (Reichman : Column 2 Line 28 – 32 and Column 9 Line 14 – 21).

6.   Claims 2 – 3 and 13 – 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gecht et at. (U.S. Patent 6,859,832), in view of Maniwa et al. (U.S. Patent 5,768,483), in view of Fujisawa (U.S. Patent 2002/0059176), and in view of Reichman et al. (U.S. Patent 6,535,716).

As per claim 2 and 13, Gecht as modified teaches making a connection to the management system at a specific time (Gecht : Column 5 Line 22 – 25). However, Gecht does not disclose expressly (1) making a connection to the management system at a specified date and time.

Fujisawa teaches:

(1) an instruction of making a connection to the management system at a specified date and time (Fujisawa : Para [0151] Line 7 – 12).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Fujisawa within the system of Gecht as modified because (a) Gecht teaches providing printing services over a communication network using device management between the spooling server and the polling device (Gecht : Column 1 Line 8 —10 and Figure 1) and (b) Fujisawa teaches providing a flexible scheduling mechabism to deliver the data resource from the internet based on the user desired schedules (Fujisawa : Para [0007] and [0151]).

Gecht in view of Fujisawa teaches:

(2) an instruction of making a connection to the management system at a specified time every day (Fujisawa : Para [0151] Line 7 – 12: the specific date / time is selected based on the user's desired schedules, which evidently covers any range of. year, month and day as presented by a calendar and as such scheduling at a specific time everyday is thus feasible as taught by Fujisawa);

(3)   an instruction of making a connection to the management system at a specified date and time every month (Fujisawa : Para [0151] Line 7 – 12: See the same rationale as set forth in rejecting item-(2));

(4)   an instruction of making a connection to the management system in a

specified period at intervals of a specified value (Gecht : Column 12 Line 56 – 59:

dynamically adjusted interval & Fujisawa : Para [0151] Line 7 – 12: the specific date / time,

as taught by Fujisawa, is selected. based on the user's desired schedules, which evidently

covers any range of a specific period (year/month/day) as presented by a calendar);

(5)   · an instruction of making a connection to the management system in a

specified period at intervals of a specified value every day (Gecht : Column 12 Line 56 –59:

dynamically adjusted inhterval & Fujisawa : Para [0151] Line 7 – 12: See the same rationale as

set forth in rejecting item-(2)).

However, Gecht in view of Fujisawa does not disclose expressly (6) an

instruction of making a connection to the management system from a specified date and time

at intervals of a specified value for an indefinite period. .

Reichman teaches (6) an instruction of making a connection to the management system

from a specified date and time at intervals of a specified value for an indefinite period

(Reichman : Column 9 Line 19 – 21: preferred schedule contains start date/ time and end date

/ time and thereby, Examiner notes "an indefinite period" is interpreted as an unexpected

long period of time – for example, when the end date / time (year/month/day) is configured as

2106 / month / day).

It would have been obvious to a person of ordinary skill in the art at the time the invention

was made to combine the teaching of Reichman within the system of Gecht as modified

because (a) Gecht as modified teaches providing printing services over a communication

network using device management between the spooling server and the polling device (Gecht :

Column 1 Line 8 – 10 and Figure 1) and (b) Reichman teaches providing a flexible scheduling

mechanism to deliver the data resource from the satellite network that can yield optional

bandwidth on demand features to remote terminals (Reichman : Column 2 Line 28 – 32 and

Column 9 Line 14 – 21).

As per claim 3 and 14, the claim limitations are met as the same reasons as that set

forth in the paragraph above regarding to claim 2 and 13 with the exception of the features (3)

when only the start date and time is specified, and a month of the start date and time is not

specified, an instruction of making a connection to the management system at the start date

and time every month (Reichman : Column 9 Line 19 – 21: preferred schedule contains

start date/time and end date / time, as taught by Reichman, and therefore, Examiner

notes when a month of the start date and time is not specified, the situation is considered as

the month is ignored with unknown value and thus only the day / time would be executed

regardless in every month); (5) See the same rationale of rejection as (3). (6) when the start

date and time and the value of the interval are specified, and the end date and time is not

specified, an instruction of making a connection to the management system from the start

date and time for an indefinite period (Reichman : Column 9 Line 19 – 21: preferred schedule

contains start date/ time and end date / time, as taught by Reichman, and therefore, Examiner

notes "an indefinite period" is interpreted as an unexpected long period of time – for example,

when the end date / time (year/month/day) is configured as an unknown value).

7.   Claims 5 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Gecht et al. (U.S. Patent 6,859,832), in view of Maniwa et al. (U.S. Patent 5,768,483).

As per claim 5 and 16, Gecht as modified teaches adding an additional

connection schedule to the connection schedule stored in the storing means, the additional

connection schedule being attached to the schedule adding command (Gecht : Column 12

Line 56 — 59: It would have been obvious to a person of ordinary skill in the art at the time the

invention was made to modify Gecht's reference to accommodate adding an additional

connection schedule because Gecht teaches dynamically adjustable scheduled polling interval

based on the traffic or requests for files (Gecht : Column 12 Line 56 — 59).

8.   Claims 6 – 7 and 17 – 18 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Gecht et al. (U.S. Patent 6,859,832), in view of Maniwa et al. (U.S. Patent

5,768,483), in view of Barrett et al. (U.S. Patent 2001/0056485).

As per claim 6 and 17, Gecht does not disclose expressly the connection schedule is

constituted by a plurality of unit schedules, and an identifier is attached to each of the unit

schedule, when the command is a schedule deleting command, the processing means

searches the storing means to find the unit schedule corresponding to the identifier

attached to the schedule deleting command, and deletes the found unit schedule. '

Barrett teaches the connection schedule is constituted by a plurality of unit schedules

and an identifier is attached to each of the unit schedule (Barrett : Para [0019] Line 17 –

23 and [0049]: the dynamic scheduling is used to identify the target samples – i.e. each target

sample has its own identified individual dynamic schedule), when the command is a schedule

deleting command, the processing means searches the storing means to find the unit

schedule corresponding to the identifier attached to the schedule deleting command, and

deletes the found unit schedule (Barrett : Para [0019] Line 17 – 23 and [0049]: It would have

been obvious to a person of ordinary skill in the art at the time the invention was made to

modify Barrett's reference to accommodate deleting an existing connection schedule because

Barrett teaches dynamically adjustable scheduler).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Barrett within the system of Gecht as modified because (a) Gecht teaches providing printing services over a communication network using device management between the spooling server and the polling device (Gecht : Column 1 Line 8 – 10 and Figure 1) and (b) Barrett teaches providing a flexible and dynamic scheduling mechanism for providing efficient data collection and efficient scheduling of data collection (Barrett : Para [0011] and [0049]).

As per claim 7 and 18, Gecht does not disclose expressly the command is an all schedule changing command, the processing means extracts an Internet address attached to the all schedule changing command, causes the management system communication means to obtain a new connection schedule existing at the Internet address, and replaces the connection schedule stored in the storing means with the new connection schedule.

Barrett teaches the command is an all schedule changing command (Barrett : Para [0019] Line 17 – 23 and [0049]: the dynamic scheduling is used to identify the target samples – i.e. each target sample has its own identified individual dynamic schedule and therefore, Examiner notes a connection schedule is constituted by a plurality of unit schedules associated with a plurality of target samples), the processing means extracts an Internet address attached to the all schedule changing command, causes the management system communication means to obtain a new connection schedule existing at the Internet address, and replaces the connection schedule stored in the storing means with the new connection schedule (Barrett : Para [0044] Last Sentence and Para [0039] Last Sentence : the schedule is downloaded from the internet and therefore, an internet address must be used for downloading process). See same rationale of combination applied herein as above

in rejecting the claim 6.

9. Claims 9 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Gecht et al. (U.S. Patent 6,859,832), in view of Maniwa et al. (U.S. Patent 5,768,483), in view

of Anderson et al. (U.S. Patent 2002/0194307).

As per claim 9 and 20, Gecht does not disclose expressly the management system

communication means has a SOAP processing function of making communication with the

management system based on SOAP.

Anderson teaches the management system communication means has a SOAP

processing function of making communication with the management system based on SOAP

(Anderson : Para [0064] and Para [0031]).

It would have been obvious to a person of ordinary skill in the art at the time the

invention was made to combine the teaching of Anderson within the system of Gecht as

modified because (a) Gecht teaches providing printing services over a communication network

using device management between the spooling server and the polling device (Gecht : Column

1 Line 8 – 10 and Figure 1) and (b) Anderson teaches providing a simple object access

protocol (SOAP) between the mobile print server and the printer (Anderson : Para [0011] and

[0049]).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as

set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing date

of this final action.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Longbit Chai whose telephone number is 571-272-3788. The examiner

can normally be reached on Monday-Friday 9:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

SYED A. ZIA
PRIMARY EXAMINER

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Longbit Chai
Examiner
Art Unit 2131

LBC